

===== EPODOC =====

AB - The invention relates to a roller (100) for exerting pressure on fabric webs, comprising a hollow cylinder (1) which supports the working cylinder circumference (4) and can be rotated about its axis A, a crosshead (5) which passes through the hollow cylinder (1) in the longitudinal direction, maintains a continuous distance to the internal circumference (2) of the hollow cylinder (1) and at its ends is supported on external supports, as well as a support device (10) which is positioned at the level of the crosshead (5) and acts radially in the working plane (W) of the roller (100) against the internal circumference (2) of the hollow cylinder (1). The forces required for generating the straight-line forces exerted by the roller (100) are transmitted by the support device (10) from the crosshead (5) to the hollow cylinder (1). Laterally at the crosshead (5) the invention provides for a hydrostatic support element (30) which acts radially perpendicular to the active plane (W) of the roller (100) against the internal circumference (2) of the hollow cylinder (1). Said hydrostatic support element can be hydraulically displaced against the internal circumference (2) of the hollow cylinder (1) and on the outside has a system of hydrostatic storage pockets (60) which are open to the internal circumference (2) of the hollow cylinder (1). The storage pocket system (60) of the lateral support element (30) can be subjected to a time-constant quantity of hydraulic fluid in a choke-free manner. The invention further provides for a mechanical stop end (55, 42) for the lateral support element (30) so as to delimit lateral extension movements.

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===== WPI =====

TI - Roller for exerting pressure on fabric webs has hydrostatic lateral support element whose bearing pocket assembly is subjected

AB - WO200005512 NOVELTY - The roller has a non-rotatable cross head (5) passing through the hollow cylinder (1) and supported at the ends on outside supports. A bearing pocket assembly of the lateral hydrostatic support element (30) can be biased throttle-free with a time constant amount of pressurised fluid and a mechanical stop is provided for the lateral support element to restrict the lateral extending movement.

- DETAILED DESCRIPTION - The mechanical stop is formed by the head of at least one screw fixed on the cross head and engaged from underneath by a radial projection (55) of the support element.

- USE - For finishing fabric webs

- ADVANTAGE - Ensures hollow cylinder is positioned perpendicular to active surface

- DESCRIPTION OF DRAWING(S) - shows partial cross-sectional view through roller

- cross head 5

- hollow cylinder 1

- hydrostatic lateral support element 30

- (Dwg.1/2)

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